



Weekly Summary Report

USEPA Oversight, Sauget Area 2, Sauget, IL

WA No. 224-RXBF-05XX / Contract No. 68-W6-0025

Week Ending Friday, December 31, 2004

This report summarizes the Interim Remedial Action (IRA) work conducted by Solutia and its contractors from December 24 through December 31, 2004, at Site R, Sauget Area 2. Ongoing IRA fieldwork consists of slurry stabilization, barrier wall cap construction, and stormwater management.

Contractors Onsite

Inquip Associates Inc. (barrier wall construction contractor)
URS (primary consultant for Solutia)

Work Performed This Week

Barrier wall cap construction, site grading, and demobilization of construction equipment continued during the week. These tasks are expected to continue as the primary site activities during the upcoming weeks.

Groundwater Migration Control System (GMCS)

The river elevation increased during the week, rising from 383.0 feet above mean sea level (amsl) on December 24 to 384.3 feet amsl on January 3. The combined pumping rate of the extraction wells was maintained at approximately 2,200 gallons per minute (gpm) during the reporting period in an effort to achieve a zero or inward gradient across the barrier wall at each of the four piezometer pairs.

Eight barrier wall piezometers, with four inside and four outside the barrier wall alignment, monitored the groundwater elevations adjacent to the barrier wall alignment during the week. Table 1 shows the river and piezometer water elevations measured at 8:00 AM on January 3, 2005.

ROD Performance Metrics (Gradient Across the Barrier Wall)

Two of the four piezometer pairs, PZ-1S/N and PZ-4E/W, displayed an inward gradient, toward Site R, across the barrier wall throughout the reporting period. An outward gradient, toward the Mississippi River, has been observed across the barrier wall at PZ-2E/W since December 23. This gradient remained outward throughout the reporting period. PZ-3E/W, where an outward gradient has been observed since December 23, regained a zero gradient on December 25 and maintained a zero or inward gradient for the remainder of the reporting period.

FFS Performance Metrics (Gradient Between Inside Wall Piezometers and River)

When compared to the Mississippi River elevation, water levels in three of the four piezometers (PZ-2E, 3E, and 4E) located inside the barrier wall displayed an outward gradient, toward the Mississippi River, during a portion of the reporting period. An inward gradient, toward Site R,

was observed in PZ-1S throughout the reporting period.

Table 1
River and Piezometer Water Elevations – January 3, 2005 (08:00)

	Elevation (ft above mean sea level)
River Level	384.29
Piezometer 1S – inside wall (northern-most pair)	382.30
Piezometer 1N – outside wall (northern-most pair)	385.56
Piezometer 2E – inside wall (north-central pair)	384.74
Piezometer 2W – outside wall (north-central pair)	383.61
Piezometer 3E – inside wall (south-central pair)	382.24
Piezometer 3W – outside wall (south-central pair)	383.34
Piezometer 4E – inside wall (southern-most pair)	383.31
Piezometer 4W – outside wall (southern-most pair)	385.33

Barrier Wall Cap Construction and Site Grading

The barrier wall cap is being constructed by excavating the uppermost three feet of barrier wall backfill, placing a 5-mil polyethylene plastic sheeting and Tensar UX1400HS geogrid over the top of the exposed barrier wall surface, and placing three feet of backfill material over the top of the geogrid. During the reporting period, construction of the barrier wall cap was completed from station 18+50 through station 25+25. In the upcoming week, cap construction will continue northward from station 25+25 toward station 26+00.

The northwest corner of the site, near the GMCS control house, and the southern half of the temporary spoils stockpile were rough graded to promote drainage. Site grading in each of these locations will continue during the upcoming week.

Slurry

No slurry stabilization operations occurred during the reporting period. Slurry stabilization activities will be discontinued until a new earthwork subcontractor commences work at the site.

Stormwater

No stormwater management activities were performed during the reporting period.

Other Activities

Inquip continued to decontaminate and demobilize construction equipment on site during the week.